REMARKS

This Amendment is prepared in response to the Office action mailed on 20 March 2007 (Paper No. 20070306).

By this Amendment, claims 1, 3-9 and 12 have been canceled without prejudice or disclaimer of their subject matter, claims 2, 10 and 11 have been amended, and claims 13-16 have been newly presented. Thus, claim 2, 10, 11 and 13-16 are pending in the application.

The drawings and the Abstract have been objected to for the reasons stated on pages 2 and 3 of the Office Action. By this Amendment, the Abstract has been revised, various claims canceled without prejudice or disclaimer of their subject matter, new claims added, and the remaining claims revised such that it is submitted that the entire application meets all of the statutory requirements of 35 U.S.C. §112 as to form.

The claims have been variously rejected under 35 U.S.C. §103 as obvious over various combinations of applied references. It is submitted that the present claims are patentable over the applied references, taken either alone or in combination, for the following reasons:

The present invention relates to a data service method in a private EV-DO wireless network system sharing a public network data location register (DLR). The method, in the private EV-DO wireless network system being interworked with a public EV-DO wireless network system, comprises the steps of: analyzing a message received from a private EV-DO network terminal to request the public network access network control (ANC) to perform a public network connection or request the private access network control (pANC) to perform a private network connection when an access network

transceiver system (ANTS) receives a public network or private network call request from the private EV-DO network terminal; requesting and receiving, by the public network access network control (ANC) receiving the public network connection request, the public network data location register (DLR) to provide terminal session information for terminal authentication performance, or of requesting and receiving, by the private access network control (pANC) receiving the private network connection request, the terminal session information for the terminal authentication performance by communication through the public network data location register (DLR) and the dedicated line; and performing the authentication according the received session information and then performing the private network connection by the private access network control (pANC) or the public network connection by the public network access network control (ANC).

The primary reference cited by the Examiner is Kil, U.S. Patent Publication No. 2001/0046859.

Kil '859 discloses a method for providing public and private mobile communication service in a mobile communication system. The system constructs a mobile communication network including a private base station transceiver subsystem (Base station Transceiver Subsystem) of a private mobile communication network and a plurality of base station transceiver subsystems of a public mobile communication network, which includes mobile switching centers (MSCs), base station controllers (BSCs) connected to said each mobile switching center, and the base station transceiver subsystems connected to said each base station controller. Upon receipt of a service request from a mobile terminal through at least one of the base station transceiver subsystems including the private base station transceiver subsystem, the system determines whether the requested service is a public mobile communication service or a

private mobile communication service; and accesses a network corresponding to the determined one of the public and private mobile communication services, and providing a corresponding mobile communication service to the accessed network.

The secondary references cited by the Examiner are Julka *et al.*, U.S. Patent Publication No. 2002/0193110 and "Interoperability Specification (IOS) for High Rate Packet Data (HRPD) Access Network Interfaces", Rev A. *3GPP2 A. S0007-A v1.0.*

Julka *et al.* '110 discloses a session controller which provides mobility management support in a 1xEVDO wireless communication network, such as one configured in accordance with the TIA/EIA/IS-856 standard. Operating as a logical network entity, the SC maintains location (e.g., a pointing tag) and session information at an access network controller (ANC) granularity, thus allowing it to track access terminal (AT) transfer between ANCs but within subnet boundaries, where a network subnet comprises one or more ANCs. This allows a packet control function (PCF) to maintain location information at a packet zone granularity, thereby reducing mobility management overhead at the PCF. The SC provides updated tag and session information to PCFs, ANCs, and other SCs as needed. Information exchange with other SCs arises, for example, when two or more SCs cooperate to maintain or transfer routing and session information across subnets.

S0007-A v1.0. discloses definition of terminologies relative to HRPD (1-4), architecture reference model, micro-mobility and macro-mobility concepts and compatibility with IS-2001 standards relative to HRPD (1-6), and A14 Interface relative to HRPD (2-7).

The present invention relates to a private data only system which shares a public

network data location register of a public network, as recited in claim 1 for example and clearly illustrated in Figure 2.

On the other hand, Kil, the primary reference, relates to a method of providing public and private mobile communication service in a mobile communication system. However, this reference fails to teach or suggest the sharing of a public network data location register by a private data only system and a public network, as illustrated in Figure 1 thereof.

The secondary Julka reference was cited by the Examiner as disclosing mobility management between two networks. However, this reference does not relate to the sharing of a public network data location register by a private data only system and a public network. That is, this reference fails to teach or suggest the features deficient in Kil.

Lastly, the third Interoperability Specification was cited by the Examiner as teaching an A14 interface as well as an AN AAA entity and a PDSN. While this reference teach these features, it does not teach or suggest the above-noted features deficient in the primary and secondary references.

Claims 1, 3-5, and 8-12 have been rejected under 35 USC 103 as obvious over the combination of the primary and secondary references.

It appears from the paragraph bridging pages 4-5 of the Office Action that the Examiner has ignored the functional limitations recited in the last two paragraphs of claim 1 and the last three paragraphs of claim 9. The claims have been revised so as to eliminate the term "adapted to". It is therefore submitted that the recited functional

limitations cannot be ignored by the Examiner.

Furthermore, it is submitted that it would not be obvious to combine the features of the primary and secondary references since there is no teaching or suggestion or incentive in either of the references supporting the proposed combination.

With regard to the rejection of claims 2, 6, and 7, it is submitted that, as noted above, this reference does not teach or suggest the above-noted features deficient in the primary and secondary references.

Furthermore, it is submitted that it would not be obvious to combine the features of the three references since there is no teaching or suggestion or incentive in these three references supporting the proposed combination.

In view of the above, it is submitted that the present claims are patentable over the applied references, taken either alone or in combination and should therefore now be in a condition suitable for allowance.

No other issues remaining, reconsideration and favorable action upon all of the claims now present in the application is respectfully requested. Should any questions remain unresolved, the Examiner is requested to telephone Applicant's undersigned attorney.

No fee is incurred by this Amendment.

Respectfully submitted,
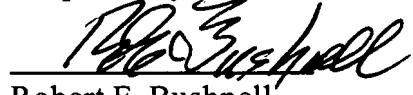
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